



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:  
Albert D. Edgar et al.

By the Examiner:  
Not Assigned

Serial No.: 09/774401

Group Art Unit:

Filed: January 30, 2001

Title: PHOTOGRAPHIC FILM HAVING TIME  
RESOLVED SENSITIVITY DISTINCTION:

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Dear Sir:

TRANSMITTAL LETTER

Transmitted herewith for filing in the above-identified application for patent are the following documents:

1. Information Disclosure Statement;
2. Form PTO-1449 (6 pages);
3. Copies of references.

No fee is due.

RESPECTFULLY SUBMITTED,  
Albert D. Edgar et al.

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LIST OF PATENTS AND PUBLICATIONS

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Albert D. Edgar et al.

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DISCLOSURE STATEMENT

FOR: PHOTOGRAPHIC FILM HAVING TIME RESOLVED  
SENSITIVITY DISTINCTION

## UNITED STATES LETTERS PATENT

		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS
		2	4	0	4	1	3	8	Oct. 6, 1941	Mayer, A.L.	95	94
		3	5	2	0	6	8	9	Jul. 14, 1970	Nagae et al.	96	55
		3	5	2	0	6	9	0	Jul. 14, 1970	Nagae et al.	96	55
		3	5	8	7	4	3	5	Jun. 28, 1971	Chioffe	95	89
		3	6	1	5	4	7	9	Oct. 26, 1971	Kohler et al.	96	48
		3	6	1	5	4	9	8	Oct. 26, 1971	Aral	96	55
		3	6	1	7	2	8	2	Nov. 2, 1971	Bard	96	59
		3	7	4	7	1	2	0	Jul 17, 1973	Stemme	346	75
		3	9	0	3	5	4	1	Sep. 2, 1975	Von Meister et al.	354	317
		3	9	4	6	3	9	8	Mar 23, 1976	Kyser et al.	346	1
		3	9	5	9	0	4	8	May 25, 1976	Stanfield et al.	156	94
		4	0	2	6	7	5	6	May 31, 1977	Stanfield et al.	156	554
		4	0	8	1	5	7	7	Mar. 28, 1978	Horner	427	424
		4	1	4	2	1	0	7	Feb. 27, 1979	Hatzakis et al.	250	571
		4	2	1	5	9	2	7	Aug. 5, 1980	Grant et al.	354	317
		4	2	4	9	9	8	5	Feb. 10, 1981	Stanfield	156	554
		4	3	0	1	4	6	9	Nov. 17, 1981	Modeen et al.	358	75
		4	4	9	0	7	2	9	Dec. 25, 1984	Clark et al.	346	75
		4	5	0	1	4	8	0	Feb. 26, 1985	Matsui et al.	354	298

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUB CLASS
		WO 90/01240							Feb. 8, 1990	PCT	H04N	1/40
		WO 91/09493							Jun. 27, 1991	PCT	H04N	5/217
		WO 97/25652							Jul. 17, 1997	PCT	G03D	5/00
		WO 98/19216							May 7, 1998	PCT	G03C	5/29
		WO 98/25399							Jun. 11, 1998	PCT	H04N	1/38
		WO 98/31142							Jul. 16, 1998	PCT	H04N	5/253
		WO 98/34157							Aug. 6, 1998	PCT	G03D	

## OTHER ART (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

		"Adaptive Fourier Threshold Filtering: A Method to Reduce Noise and Incoherent Artifacts in High Resolution Cardiac Images", Doyle, M., et al., 8306 Magnetic Resonance in Medicine 31, No. 5, Baltimore, MD, May, pp. 546-550, 1994.										
		"Anisotropic Spectral Magnitude Estimation Filters for Noise Reduction and Image Enhancement", Aich, T., et al., Philips GmbH Research Laboratories, IEEE, pp. 335-338, 1996.										
		"Adaptive-neighborhood filtering of images corrupted by signal-dependent noise", Rangayyan, R., et al., Applied Optics, Vol. 37, No. 20, pp. 4477-4487, July 10, 1998.										
		"Grayscale Characteristics", The Nature of Color Images, Photographic Negatives, pp. 163-168.										
		"Parallel Production of Oligonucleotide Arrays Using Membranes and Reagent Jet Printing", Stimpson, D., et al., Research Reports, BioTechniques, Vol. 25, No. 5, pp. 886-890, 1998.										
		"Low-Cost Display Assembly and Interconnect Using Ink-Jet Printing Technology", Hayes, D. et al., Display Works '99, MicroFab Technologies, Inc., pp. 1-4, 1999.										
		"Ink-Jet Based Fluid Microdispensing in Biochemical Applications", Wallace, D., MicroFab Technologies, Inc., Laboratory Automation News, Vol. 1, No. 5, pp. 6-9, Nov., 1996.										

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## UNITED STATES LETTERS PATENT

		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS
		4	5	6	4	2	8	0	Jan. 14, 1986	Fukuda	354	317
		4	5	9	4	5	9	8	Jun. 10, 1986	Iwagami	346	140
		4	6	2	1	0	3	7	Nov. 4, 1986	Kanda et al.	430	30
		4	6	2	3	2	3	6	Nov. 18, 1986	Stella	354	318
		4	6	3	6	8	0	8	Jan. 13, 1987	Herron	346	75
		4	6	6	6	3	0	7	May 19, 1987	Matsumoto et al.	356	404
		4	6	7	0	7	7	9	Jun 2, 1987	Nagano	358	75
		4	7	3	6	2	2	1	Apr. 5, 1988	Shidara	354	317
		4	7	4	5	0	4	0	May 17, 1988	Levine	430	21
		4	7	5	5	8	4	4	Jul. 5, 1988	Tsuchiya et al.	354	317
		4	7	7	7	1	0	2	Oct. 11, 1988	Levine	430	21
		4	7	9	6	0	6	1	Jan. 3, 1989	Ikeda et al.	355	73
		4	8	1	4	6	3	0	Mar. 21, 1989	Lim	250	578
		4	8	2	1	1	1	4	Apr. 11, 1989	Gebhardt	358	75
		4	8	4	5	5	5	1	Jul. 4, 1989	Matsumoto	358	80
		4	8	5	1	3	1	1	Jul. 25, 1989	Millis et al.	430	30
		4	8	5	7	4	3	0	Aug. 15, 1989	Millis et al.	430	30
		4	8	7	5	0	6	7	Oct. 17, 1989	Kanzaki et al.	354	325
		4	9	6	9	0	4	5	Nov. 6, 1990	Haruki et al.	358	228

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUB CLASS
		WO 98/34397							Aug. 6, 1998	PCT	H04N	
		WO 99/43148							Aug. 26, 1999	PCT	H04N	1/00
		WO 01/01197							Jan. 4, 2001	PCT	G03D	5/00
		WO 01/13174 A1							Feb. 22, 2001	PCT	G03D	5/06
		EP 0 261 782 A2							Aug. 14, 1987	Europe	H04N	1/46
		EP 0 422 220 A1							Mar. 28, 1989	Europe	A61B	6/03
		EP 0 482 790 B1							Sep. 9, 1991	Europe	H04N	1/40
		EP 0 525 886 A3							Jul. 21, 1992	Europe	G03D	5/00
		EP 0 580 293 A1							Jun. 22, 1993	Europe	H04N	1/04
		EP 0 669 753 A2							Feb. 24, 1995	Europe	H04N	1/407

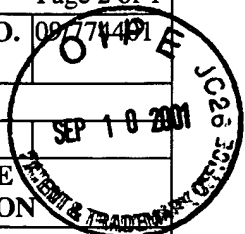
## OTHER ART (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

		"Protorealistic Ink-Jet Printing Through Dynamic Spot Size Control", Wallace, D., Journal of Imaging Science and Technology, Vol. 40, No. 5, pp. 390-395, Sept/Oct. 1996.										
		"MicroJet Printing of Solder and Polymers for Multi-Chip Modules and Chip-Scale Package", Hayes, D., et al., MicroFab Technologies, Inc.										
		"A Method of Characterisitics Model of a Drop-on-Demand Ink-Jet Device Using an Integral Method Drop Formation Model", Wallace, D., MicroFab Technologies, Inc., The American Society of Mechanical Engineers, Winter Annual Meeting, pp. 1-9, Dec. 10-15, 1989.										
		"Digital Imaging Equipment White Papers", Putting Damaged Film on ICE, <a href="http://www.nikonusa.com/reference/whitepapers/imaging">www.nikonusa.com/reference/whitepapers/imaging</a> , Nikon Corporation, Nov. 28, 2000.										

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## UNITED STATES LETTERS PATENT

		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS
		4	9	9	4	9	1	8	Feb. 19, 1991	Lingemann	358	214
		5	0	3	4	7	6	7	Jul. 23, 1991	Netz et al.	354	317
		5	1	0	1	2	8	6	Mar. 31, 1992	Patton	358	487
		5	1	2	4	2	1	6	Jun. 23, 1992	Giapis et al.	430	30
		5	1	5	5	5	9	6	Oct. 13, 1992	Kurtz et al.	358	214
		5	1	9	6	2	8	5	Mar. 23, 1993	Thomson	430	30
		5	2	1	2	5	1	2	May 18, 1993	Shiota	354	319
		5	2	3	1	4	3	9	Jul. 27, 1993	Takahashi et al.	354	313
		5	2	3	5	3	5	2	Aug. 10, 1993	Pies et al.	346	140
		5	2	5	5	4	0	8	Oct. 26, 1993	Blackman	15	308
		5	2	6	6	8	0	5	Nov. 30, 1993	Edgar	250	330
		5	2	6	7	0	3	0	Nov. 30, 1993	Giorgianni et al.	358	527
		5	2	9	2	6	0	5	Mar. 8, 1994	Thomson	430	30
		5	2	9	6	9	2	3	Mar. 22, 1994	Hung	358	527
		5	3	5	0	6	5	1	Sep. 27, 1994	Evans et al.	430	21
		5	3	5	0	6	6	4	Sep. 27, 1994	Simons	430	362
		5	3	5	7	3	0	7	Oct. 18, 1994	Glanville et al.	354	324
		5	3	6	0	7	0	1	Nov. 1, 1994	Elton et al.	430	501
		5	3	7	1	5	4	2	Dec. 6, 1994	Pauli et al.	348	262

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUB CLASS
		EP 0 794 454 A2							Feb. 28, 1997	Europe	G03B	27/73
		EP 0 930 498 A2							Dec. 21, 1998	Europe	G01N	21/88

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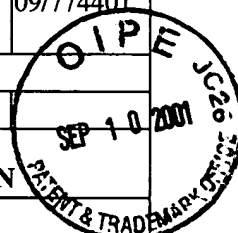
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		5	3	9	1	4	4	3	Feb. 21, 1995	Simons et al.	430	21
		5	4	1	4	7	7	9	May 9, 1995	Mitch	382	199
		5	4	1	6	5	5	0	May 16, 1995	Skye et al.	354	298
		5	4	1	8	1	1	9	May 23, 1995	Simons	430	507
		5	4	1	8	5	9	7	May 23, 1995	Lahcanski et al.	355	76
		5	4	3	2	5	7	9	Jul. 11, 1995	Tokuda	354	293
		5	4	3	6	7	3	8	Jul. 25, 1995	Manico	358	503
		5	4	4	0	3	6	5	Aug. 8, 1995	Gates et al.	354	298
		5	4	4	7	8	1	1	Sep. 5, 1995	Buhr et al.	430	20
		5	4	4	8	3	8	0	Sep. 5, 1995	Park	358	520
		5	4	5	2	0	1	8	Sep. 19, 1995	Capitant et al.	348	651
		5	4	6	5	1	5	5	Nov. 7, 1995	Edgar	358	500
		5	5	1	6	6	0	8	May 14, 1996	Hobbs et al.	430	30
		5	5	4	6	4	7	7	Aug. 13, 1996	Knowles et al.	382	242
		5	4	9	6	6	6	9	Mar. 5, 1996	Pforr et al.	430	22
		5	5	5	0	5	6	6	Aug. 27, 1996	Hodgson et al.	345	202
		5	5	1	9	5	1	0	May 21, 1996	Edgar	358	471
		5	5	5	2	9	0	4	Sep. 3, 1996	Ryoo et al.	358	518
		5	5	6	3	7	1	7	Oct. 8, 1996	Koeng et al.	358	406

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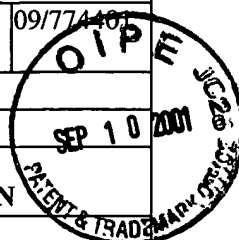
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		DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS
		5	5	6	8	2	7	0	Oct. 22, 1996	Endo	358	298
		5	5	7	6	8	3	6	Nov. 19, 1996	Sano et al.	358	302
		5	5	8	1	3	7	6	Dec. 3, 1996	Harrington	358	518
		5	5	9	6	4	1	5	Jan. 21, 1997	Cosgrove et al.	358	296
		5	6	2	7	0	1	6	May 6, 1997	Manico	430	434
		5	6	6	4	2	5	3	Sep. 2, 1997	Mevers	396	603
		5	6	6	4	2	5	5	Sep. 2, 1997	Wen	396	627
		5	6	6	7	9	4	4	Sep. 16, 1997	Reem et al.	430	359
		5	6	7	8	1	1	6	Oct. 14, 1997	Sugimoto et al.	396	611
		5	6	9	1	1	1	8	Nov. 25, 1997	Haye	430	357
		5	6	9	5	9	1	4	Dec. 9, 1997	Simon et al.	430	379
		5	6	9	8	3	8	2	Dec. 16, 1997	Nakahanada et al.	430	418
		5	7	2	6	7	7	3	Mar. 10, 1998	Mehlo et al.	358	474
		5	7	3	9	8	9	7	Apr. 14, 1998	Frick et al.	355	40
		5	7	7	1	1	0	7	Jun. 23, 1998	Fujimoto et al.	358	464
		5	7	9	0	2	7	7	Aug. 4, 1998	Edgar	358	487
		5	8	3	5	8	1	1	Nov. 10, 1998	Tsumura	396	598
		5	8	7	0	1	7	2	Feb. 9, 1999	Blume	355	27
		5	8	8	0	8	1	9	Mar. 9, 1999	Tanaka et. Al.	355	75

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## UNITED STATES LETTERS PATENT

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		5	8	9	2	5	9	5	Apr. 6, 1999	Yamakawa et al.	358	530
		5	9	3	0	3	8	8	Jul. 27, 1999	Murakami et al.	382	167
		5	9	6	3	6	6	2	Oct. 5, 1999	Vachtsevanos et al.	382	150
		5	9	6	6	4	6	5	Oct. 12, 1999	Keith et al.	382	232
		5	9	7	9	0	1	1	Nov. 9, 1999	Miyawaki et al.	15	308
		5	9	8	2	9	3	6	Nov. 9, 1999	Tucker et al.	382	233
		5	9	8	2	9	3	7	Nov. 9, 1999	Accad	382	239
		5	9	8	2	9	4	1	Nov. 9, 1999	Loveridge et al.	382	260
		5	9	8	2	9	5	1	Nov. 9, 1999	Katayama et al.	382	284
		5	9	8	8	8	9	6	Nov. 23, 1999	Edgar	396	604
		5	9	9	1	4	4	4	Nov. 23, 1999	Burt et al.	382	232
		5	9	9	8	1	0	9	Dec. 7, 1999	Hirabayashi	430	434
		6	0	0	0	2	8	4	Dec. 14, 1999	Shin et al.	73	150
		6	0	0	5	9	8	7	Dec. 21, 1999	Nakamura et al.	382	294
		6	0	6	5	8	2	4	May 23, 2000	Bullock et al.	347	19
		6	0	6	9	7	1	4	May 30, 2000	Edgar	358	487
		6	0	8	9	6	8	7	Jul. 18, 2000	Helterline	347	7
		6	1	0	1	2	7	3	Aug. 8, 2000	Matama	382	169
		6	1	0	2	5	0	8	Aug. 15, 2000	Cowger	347	7
		6	1	3	7	9	6	5	Oct. 24, 2000	Burgeios et al.	396	626

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